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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/760,238

01/21/2004

Kia Silverbrook

MPA20US

2189

24011

7590

10/31/2006

SILVERBROOK RESEARCH PTY LTD
393 DARLING STREET
BALMAIN, NSW 2041
AUSTRALIA

EXAMINER

GOLDBERG, BRIAN J

ART UNIT

PAPER NUMBER

2861

DATE MAILED: 10/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/760,238	SILVERBROOK ET AL.	
	Examiner	Art Unit	
	Brian Goldberg	2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 February 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Silverbrook et al. (US 6439908).

3. Regarding claim 1, Silverbrook et al. disclose “at least one printhead module part (10 of Fig 2) comprising at least two printhead integrated circuits (18 of Fig 4), each of which has nozzles formed therein for delivering printing fluid onto the surface of print media (col 3 ln 45-47), a support member (28 of Fig 8) supporting and carrying the printing fluid for the at least two printhead integrated circuits, and an electrical connector (48 of Fig 8) for connecting electrical signals to the at least two printhead integrated circuits; a drive electronics part incorporating at least one controller which is connected to at least one of the at least two printhead integrated circuits via the electrical connector for controlling the printing operation of at least one of the at least two printhead integrated circuits (col 3 ln 48-49 and ln 59-65); and a casing part (14 of Fig 3) removably supporting at least one mounting element (lower portion of Fig 8) which mounts the drive electronics and incorporates a clamping arrangement (94 and curved edge of 14 of Fig 2) for removably clamping the at least one printhead module to the casing.” The structure of 94 and the curved edge of 14 can serve as a clamp in that it

assists in holding the printhead module 10 in place. Alternatively, one could consider “a casing (28 of Fig 8) in which the at least one printhead module is removably mounted by having a first side thereof slidably received in a longitudinally extending groove (94 of Fig 6) of the casing and a second side thereof clamped to the casing by a clamp mounted to the casing (44 of Fig 6).” Please see additional explanation below in “Response to Arguments”.

4. Regarding claim 2, Silverbrook et al. disclose “the support member includes longitudinally extending tabs (44 of Fig 11) on the two parallel sides thereof; the casing comprises a support frame (64, 94, lower parts of 76 and 32 of Fig 2) for supporting the at least one mounting element, the support frame comprising a first side wall (94 of Fig 2) having a longitudinally extending recessed groove (92 of Fig 5) and a second side wall (64 of Fig 2) substantially parallel to the first side wall; and the longitudinally extending tab (44 Fig 11) on one side of the support member is received in the longitudinally extending recessed groove (92 of Fig 5) of the support frame and the longitudinally extending tab on the other side of the support member is received on an upper surface of the second side wall (64 of Fig 5) of the support frame (see Fig 5).”

5. Regarding claim 3, Silverbrook et al. disclose “wherein the clamping arrangement comprises recessed portions (92 or 97 of Fig 3) for interlocking with lug members (tips of 44 of Fig 11) of the printhead module.”

6. Regarding claim 4, Silverbrook et al. disclose “wherein the lug members (tips of 44 of Fig 11) are provided along the longitudinally extending tabs (44 of Fig 11) of the support member and are spaced so as to correspond to positions at which the at least

two printhead integrated circuits (18 of Fig 8) are provided on the at least one printhead module, and the recessed portions (92 or 97 of Fig 3) engage with the lug members (tips of 44 of Fig 11) on the longitudinally extending tab (44 of Fig 11)."

7. Regarding claim 5, Silverbrook et al. disclose "wherein the clamping arrangement of the at least one mounting element comprises at least one extending arm portion (lower portion of 64 of Fig 2) so as to clamp the longitudinally extending tab (44 of Fig 11) of the support member to the upper surface of the second side wall (64 of Fig 5) of the support frame."

8. Regarding claim 6, Silverbrook et al. disclose "wherein the at least one extending arm portion includes at least one of the recessed portions (92 of Fig 5) of the clamping arrangement."

9. Regarding claim 7, Silverbrook et al. disclose "the at least one printhead module (10 of Fig 2) is formed as a unitary arrangement of the at least two printhead integrated circuits (18 of Fig 4), the support member (28 of Fig 8), the electrical connector (48 of Fig 8), and at least two fluid distribution members (26 of Fig 7) each mounting one of the at least two printhead integrated circuits to the support member; and the support member has at least one longitudinally extending channel (30 of Fig 8) for carrying the printing fluid for the printhead integrated circuits and includes a plurality of apertures (72 of Fig 8) extending through a wall of the support member arranged so as to direct the printing fluid from the at least one channel to associated nozzles in both, or if more than two, all of the printhead integrated circuits by way of respective ones of the fluid distribution members (see Fig 7 and col 3 ln 45-47)."

Response to Arguments

10. Applicant's arguments filed 8/18/06 have been fully considered but they are not persuasive. The use of 10 to refer to the printhead module disclosed in the Silverbrook reference has caused confusion, since the arrow from 10 may appear to point to varying portions of the figures. However, as can best be seen in figures 2 and 3, the casing 14 is the uppermost portion, extending from the top around the back of the printhead module, while everything else is considered part of the printhead module (i.e. the lower parts of figure 3, which the examiner has referred to as 10 for simplification). Furthermore, Silverbrook states that casing 14 can be extended in length to provide for multiple printhead modules 10 (col 5 ln 34-38). Therefore, the casing can be considered a separate individual part from the printhead module.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Goldberg whose telephone number is 571-272-2728. The examiner can normally be reached on Monday through Friday, 9AM-5PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vip Patel can be reached on 571-272-2458. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2861

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian Goldberg
AU 2861
October 11, 2006




Vip Patel
Supervisory Examiner
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